A-GEAR World Wide Manufacturing

Product Specification
A-GEAR S2008/S2116/S2026
Network Manageable Ethernet Switch

Proudly presented by A-GEAR Tech Co., Ltd. (A-GEAR), A-GEAR S2008/ S2116/S2026 is a modularized hi-performance workgroup or enterprise-scale switch, with 8/16/24 Fast Ethernet ports. A-GEAR S2008/S2116/S2026 can connect all (Fast) Ethernet devices so that your investment is protected. It provides hi-speed connection among workgroups, offers powerful network management, and solves the bottleneck caused by increasing users and limited bandwidth, making network resources easier to manage and more readily available to you. More importantly, all of the advantages are brought to you by A-GEAR at low costs and with easy maintenance.

1. Application

- Hi-speed, network manageable inter-workgroup or enterprise-edge switching

2. Features

2.1. Performance

- All wire-speed forwarding, non-congestion design
- 3.2/6.4/9.6 Gbps switch fabric, dedicated ASIC for switching

2.2. Security and reliability

- Local security policy restricts illegal access
- IEEE 802.1x port-based user authentication
- Port trunking increases bandwidth and redundancy

2.3. Easy maintenance

- Automatic recognition for straight-through or cross-over cables
- Stackable through cluster technology. Central management with unified IP address saves IP addresses

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- Management via CONSOLE port, SNMP, Web, Telnet, etc.
- Software and BootRom upgrade through TFTP

2.4. Traffic and broadcast control

- Auto-detection and restraining of broadcast storm, IGMP snooping, effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port rate limiting with 64 K step size (1 M step size for rate over 1.8 M)
- Advanced buffer management, 802.1p support. 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
- QoS support

3. Specifications

Port & Slot	8 * 10/100M TX 1 * Console Port	16 * 10/100M TX 1 * 100M Slot 1 * Console Port	24 * 10/100M TX 2 * 100M Slots 1 * Console Port
Switch Fabric	3.2 Gbps	6.4 Gbps	9.6 Gbps
Forwarding Rate	All wire-speed forwarding and filtering		
Switching Mode	Store-and-forward		
MAC Address Table Size	4 K		
Queuing Buffer	4 MB		
Dimensions (L x W x H) (mm)	340 x 200 x 44		442 x 316 x 44
Power Input	AC 100~240 V, 47 ~ 63 Hz, 1A/230V		
LED Indicators	Power, system, link, activity, 10/100M		
Temperature	Operating: 0 ~ 50℃, non-operating: -40 ~ 70℃		
Humidity	0 ~ 90% (no condensing)		
Functions			
Spanning Tree	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP		
VLAN	Port-based VLAN, 802.1Q tag VLAN, GVRP dynamic VLAN configuration. Size: 4K		
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, port rate limiting: 64 K step size (1 M step size at rate over 1.8 M)		
Storm Control	Stop sending at threshold to restrict broadcast/multicast/unicast storms		
Multicast Control	IGMP snooping		
Port Trunking	Up to 8 groups with up to 4 ports per group, dynamic LACP aggregation		
Clustering	Up to 256, manageable through single IP		
Security	IEEE 802.1x port-based user authentication, RADIUS		

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QoS	4 dispatching queues per port, mapping the 8 priority queues in 802.1p		
Network Management	SNMP, RMON, Telnet, Command Line Interface (CLI) Support A-GEAR network management tools suite: Broad Director, and other general network management software		
Software Upgrade	TFTP		
Configuration Upload/ download	TFTP		

4. Order Information

A-GEAR S2008	Network manageable Ethernet switch with 8 10/100M Fast Ethernet ports, and 1 Console port.
A-GEAR S2116	Network manageable Ethernet switch with 16 10/100M Fast Ethernet ports, 1 expansion slots supporting 100M ports, and 1 Console port.
A-GEAR S2026	Network manageable Ethernet switch with 24 10/100M Fast Ethernet ports, 2 expansion slots supporting 100M ports, 1 Console port

The functions and corresponding parameters may change in light of the upgrade of software, modular, etc. The right of final interpretation belongs to A-GEAR. For more information, please contact us.